

Practical Molecular Virology

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Practical Molecular Virology provides a concise, well-organized, well-written...selective overview of eukaryotic viral vectors. As an entry-level text, it surely will assist those wishing to use such vectors to make a choice among established systems.

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Sep 04, 2020 virology a practical approach the practical approach series Posted By Jeffrey ArcherPublic Library TEXT ID 7599e913 Online PDF Ebook Epub Library A Practical Approach To The Management Of Cancer Patients

A companion volume to Virology: A Practical Approach, this new book details the recent transformation of virology, by the availability of an expanding battery of techniques for molecular analysis. It describes how many of the methods worked out for a particular virus are applicable to others, and some, particularly those employing viruses as vectors for expression of foreign genes, have impacted powerfully upon biologists whose interests lie outside the field of virology. Bringing the subject completely up-to-date, the volume details how some of the most powerful new techniques, such asPCR, now allow the study of viruses which have proven inaccessible to conventional approaches. Indispensable, it is a modern guide for virologists and for those using viruses as a tool for understanding other biological systems.

1. 1 Historical development of molecular virology of effort on a limited number of phages. Viruses have occupied a central position in notably the Escherichia coli phages T2 and T4. molecular biology ever since its development as At the same time Lwoff and his colleagues were an independent discipline. Indeed, molecular studying phage A, a temperate phage of E. coli, biology itselflargely developed out of the work which was to lead to equally fundamental pioneer studies of Delbrück, Luria and Hershey, observations on the regulation of macro who realized, in the late 1930's, that bacterial molecular synthesis. viruses (bacteriophages, often abbreviated to The study of animal and plant viruses has its phages) had properties which made them origins in the latter half of the 19th century uniquely suitable as a model system for an and was largely initiated by workers in medical, attack on one of the then outstanding problems veterinary and agricultural disciplines. Many of biology, the definition of the gene in their practical successes owe little to molecular physical and chemical terms. The favourable biology, stemming instead from those properties of these viruses include the rapidity approaches successful in combating other of their growth, their ease of assay, and the parasites, such as vector control and the availability of easily scored genetic markers. breeding of resistant varieties of plants.

In Tumor Targeting in Cancer Therapy, Dr. Michel Pagé and a panel of authoritative experts from the drug industry, clinics, and academia introduce the principles and techniques of tumor targeting and critically survey their applications from laboratory to bedside. By concisely synthesizing the many technical details, the authors illuminate this innovative technique, ranging from the fundamentals of drug targeting and in vivo and in vitro experimentation, to such emerging therapeutic uses as radioimmunotherapy, radioimmunodetection, therapy with cytotoxic antibodies, immunotoxins, enzyme prodrug immunotherapy, and immunotherapeutics with fusion proteins. There are also reviews of targeting tumors with radioimmunoconjugates, photodynamic therapy, and magnetic drugs, as well as discussions of the internalization of antibodies, bioconjugation and biodistribution, the use of cytotoxic drugs, and the pros and cons of targeting by antibody or ligand.

Mary K. L. Collins has assembled in Practical Molecular Virology a vanguard collection of readily repeatable methods for gene transfer and expression using a variety of recombinant viral vectors. In keeping with the established tradition of the series, each technique is presented in an easy-to-follow format designed to work for the novice as well as the seasoned expert. Chapters cover: [] life cycles of specific retroviruses and how recombinant vectors are constructed [] PCR techniques [] poliovirus vectors [] herpesvirus vectors [] syncytial assays [] cell lineage studies [] baculovirus and adenovirus vectors [] SV40 and EBV vectors [] viruses in gene transfer to eukaryotic cells The wealth of material devoted to recombinant retroviral methods and their applications make Practical Molecular Virology and extremely timely volume, one that will find widespread use throughout biological and biomedical research.

Designed for students learning about viruses for the first time at the undergraduate or graduate level, Fundamentals of Molecular Virology is presented in a style which relates to today's students and professors. This book is also a valuable, up-to-date source of information for graduate students, postdoctoral fellows and research scientists working with viruses. Chapters contributed by prominent virologists were edited to conform to a clear and accessible style. The text provides a thorough presentation of basic and contemporary concepts in virology for a student's first exposure to the field.

This new, fully revised second edition of Fundamentals of Molecular Virology is designed for university students learning about virology at the undergraduate or graduate level. Chapters cover most of the major virus families, emphasizing the unique features of each virus family. These chapters are designed to tell stories about the viruses covered, and include information on discovery, diseases and pathogenesis, virus structure, steps in viral replication, and interaction with cellular signaling pathways. This approach portrays the "personality" of each virus, helping students to learn the material and to build up their knowledge of virology, starting with smaller and simpler viruses and proceeding to more complex viruses.

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